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S.E. Laux, D.J. Frank and F. Stern, Quasi-one-dimensional electron states in a split-gate GaAs/AlGaAs heterostructure 196 (1988) 101
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L. Bliek, G. Hein, D. Jucknischke, V. Kose, J. Niemeyer, G. Weimann and W. Schlapp, Breakdown of dissipationless quantum Hall conduction in narrow channels 196 (1988) 156
M. D'Iorio, A.S. Sachrajda, D. Landheer, M. Buchanan, T. Moore, C.J. Miner and A.J. Springthorpe, Narrow channel breakdown in GaAs/AlGaAs heterostructures 196 (1988) 165
R. Meisels, F. Kuchar, K.Y. Lim, G. Weimann and W. Schlapp, The intrinsic plateau width and the effect of the sample boundaries on the integral quantum Hall effect in GaAs/AlGaAs 196 (1988) 177
B.E. Kane, D.C. Tsui and G. Weimann, Low frequency noise in the integral quantum Hall effect 196 (1988) 183
B.B. Goldberg, D. Heiman, A. Pinczuk, C.W. Tu, A.C. Gossard and J.H. English, Magneto-optics of the fractional quantum Hall effect 196 (1988) 209
J. Wakabayashi, S. Sudou, S. Kawaji, K. Hirakawa and H. Sakaki, Effects of the gate bias on the activation energies of the fractional quantum Hall effect 196 (1988) 236
R.J. Haug, K. von Klitzing, R.J. Nicholas, J.C. Maan and G. Weimann, The influence of a tilted magnetic field on the fractional quantum Hall effect and the exchange enhancement of the spin splitting 196 (1988) 242
D.A. Syphers and J.E. Furneaux, Fractional quantum Hall effect in tilted magnetic fields 196 (1988) 252
R. Willett, H.L. Stormer, D.C. Tsui, A.C. Gossard, J.H. English and K.W. Baldwin, Fractional quantum Hall effect in extremely high mobility GaAs/(AlGa)As heterostructures 196 (1988) 257
K. Ensslin, D. Heitmann, H. Sigg and K. Ploog, Effects of the filling factor on the cyclotron resonance in gated AlGaAs/GaAs heterostructures 196 (1988) 263
S. Oelting, A.D. Wieck, E. Batke and U. Merkt, Cyclotron masses of inversion electrons in tilted magnetic fields 196 (1988) 273
M.J. Chou, D.C. Tsui and G. Weimann, Cyclotron resonance in the extreme quantum limit 196 (1988) 279
T.P. Smith III, W.I. Wang, F.F. Fang, L.L. Chang, L.S. Kim, T. Pham and H.D. Drew, Magnetotransport and cyclotron resonance in AlAs quantum wells 196 (1988) 287
H. Sigg, D. Weiss and K. von Klitzing, Magnetotransport and cyclotron resonance investigations of the 2D electron gas in e^--beam irradiated AlGaAs/GaAs heterojunctions 196 (1988) 293
M. Chmielowski, M. Gliński, W.H. Zhuang, G.B. Liang, D.Z. Sun, M.Y. Kong, W. Plesiewicz, T. Dietl and T. Skośkiewicz, Fundamental high-field transport properties of a GaAs/AlGaAs modulation doped heterostructure 196 (1988) 299
G.L.J.A. Rikken, P. Wyder, K. Ploog, J.M. Chamberlain, R.T. Grimes and G. Hill, Nanosecond far infra red magnetospectroscopy of GaAs/AlGaAs heterostructures 196 (1988) 303
F.F. Fang, T.P. Smith III and S.L. Wright, Landau-level broadening and scattering time in modulation doped GaAs/AlGaAs heterostructures 196 (1988) 310

K.P. Martin, R.J. Higgins, J.J.L. Rascol, H. Yoo and J.R. Arthur, Quantum lifetime measurements of the two-dimensional electron gas at the inverted AlGaAs/GaAs interface 196 (1988) 323
A. Waag, W. Heuring, G. Remenyi, G. Landwehr, E. Bangert, G. Weimann and W. Schlapp, Density of states in a two-dimensional hole gas in high magnetic fields 196 (1988) 328
J.-M. Mercy, B.D. McCombe, W. Beard, J. Ralston and G. Wicks, Barrier impurity states in modulation doped AlGaAs/GaAs multi-quantum wells 196 (1988) 334
E. Gornik, W. Seidenbusch, R. Christanell, R. Lassnig and C.R. Pidgeon, Evidence for impurity states close to the 2D gas in GaAs/GaAlAs heterostructures 196 (1988) 339
E.A. de Andrada e Silva, I.C. da Cunha Lima, A. Ferreira da Silva and C.E. Leal, Density of states of electrons bound to impurities in quantum wells of GaAlAs/GaAs 196 (1988) 352
D. Gammon, E. Glaser, B.V. Shanabrook and D. Musser, A spectroscopic study of screening effects in a quasi-two-dimensional system 196 (1988) 359
K. Hirakawa, T. Noda and H. Sakaki, Interface roughness in AlAs/GaAs quantum wells characterized by the mobility of two-dimensional electrons 196 (1988) 365
R. Lassnig, J. Smoliner, W. Boxleitner and E. Gornik, Tunneling study of GaAs/GaAlAs heterostructures 196 (1988) 367
R. Sauer, T.D. Harris and W.T. Tsang, Photoluminescence and photoluminescence excitation study of electron–hole tunneling in $In_{0.53}Ga_{0.47}As$/InP coupled-single quantum wells 196 (1988) 388
P.J. Price, Tunneling in AlGaAs by Γ–X scattering 196 (1988) 394
D.J. Westland, D. Mihailovič, J.F. Ryan and M.D. Scott, Time-resolved photoluminescence measurement of carrier trapping time of InGaAs/InP quantum wells 196 (1988) 399
C.A. Payling, E.S. Alves, L. Eaves, T.J. Foster, M. Henini, O.H. Hughes, P.E. Simmonds, F.W. Sheard, G.A. Toombs and J.C. Portal, Evidence for sequential tunnelling and charge build-up in double barrier resonant tunnelling devices 196 (1988) 404
P.L. Gammel, D.J. Bishop, J.P. Eisenstein, R.P. Hall, H.L. Stormer, A.C. Gossard and J.H. English, Quantum oscillations in a mechanical resonator containing a two-dimensional electron system 196 (1988) 417
M. Babiker, M.P. Chamberlain, A. Ghosal and B.K. Ridley, A new resonance phenomenon associated with electron transitions in superlattices and single quantum wells 196 (1988) 422
J. Singleton, R.J. Nicholas, D.C. Rogers and C.T.B. Foxon, Cyclotron resonance of electrons in a narrow GaAs/(Ga,Al)As quantum well: polaron effects and non-parabolicity 196 (1988) 429
F.M. Peeters, Wu Xiaoguang and J.T. Devreese, Polaron cyclotron mass in $GaAs/Al_xGa_{1-x}As$ heterostructures 196 (1988) 437
J.P. Eisenstein, A.C. Gossard and V. Narayanamurti, Thermal conductance magneto-oscillations and electron–phonon coupling in GaAs/AlGaAs heterostructures 196 (1988) 445
M.A. Brummell, D.R. Leadley, R.J. Nicholas, J.J. Harris and C.T. Foxon, Competition between LO and TO phonon scattering in GaAs/GaAlAs heterojunctions 196 (1988) 451
M.H. Degani and O. Hipólito, Electron–interface-phonon interaction in GaAs/AlAs and InAs/GaSb heterojunctions 196 (1988) 459
E.Y. Andrei, D.C. Glattli, F.I.B. Williams and M. Heiblum, Low frequency collective excitations in the quantum-Hall system 196 (1988) 501

M.S. Skolnick, J.M. Rorison, K.J. Nash and S.J. Bass, Fermi energy edge singularity in luminescence spectra from modulation-doped quantum wells 196 (1988) 507
J.A. Brum, J. Orgonasi, G. Bastard, C. Delalande, M. Voos, G. Weimann and W. Schlapp, Optical properties of one-side modulation-doped quantum wells 196 (1988) 512
J.C. Maan, Magneto-optical properties of superlattices and quantum wells 196 (1988) 518
J.S. Lee, N. Miura and Y. Iwasa, Magneto-optics of n- and p-type modulation-doped GaAs/$Al_xGa_{1-x}As$ quantum wells 196 (1988) 534
M. Altarelli and G. Platero, Magnetic hole levels in quantum wells in a parallel field 196 (1988) 540
J. Hegarty and M.D. Sturge, Exciton localisation in quantum well structures 196 (1988) 555
J.E. Zucker, E. Isaacs, D. Heiman, A. Pinczuk and D.S. Chemla, Localized quantum well excitons in the high magnetic field limit 196 (1988) 563
L. Viña, Spectroscopic studies of excitonic fine structure under electric fields 196 (1988) 569
J.M. Calleja, C. López, C. Tejedor, L. Viña, E.E. Méndez, W.I. Wang, M. Staines and M. Cardona, Study of electric field effects on the electronic structure of quantum wells by resonant Raman scattering 196 (1988) 578
G. Tränkle, E. Lach, M. Walther, A. Forchel and G. Weimann, Optical investigation of 2D Mott transitions in GaAs/GaAlAs quantum well structures 196 (1988) 584
G.W. Bryant, Excitons in quantum boxes 196 (1988) 596
J.P. Kotthaus, W. Hansen, H. Pohlmann, M. Wassermeier and K. Ploog, Intersubband resonances in quasi-one-dimensional channels 196 (1988) 600
D.Y. Oberli, D.R. Wake, M.V. Klein, T. Henderson and H. Morkoç, Picosecond studies of intersubband relaxation in semiconductor quantum wells 196 (1988) 611
G. Abstreiter, T. Egeler, S. Beeck, A. Seilmeier, H.J. Hübner, G. Weimann and W. Schlapp, Electronic excitations in narrow GaAs/$Al_xGa_{1-x}As$ quantum well structures 196 (1988) 613
B.B. Goldberg, D. Heiman, A. Pinczuk and A.C. Gossard, Inelastic light scattering of valence subband transitions in GaAs/GaAlAs multiple quantum wells 196 (1988) 619
A. Zrenner, F. Koch and K. Ploog, Subband physics for a "realistic" δ-doping layer 196 (1988) 671
C.H. Perry, K.S. Lee, W. Zhou, J.M. Worlock, A. Zrenner, F. Koch and K. Ploog, Magneto-optical studies of a silicon delta-doping layer in n-GaAs 196 (1988) 677
H. Akera, S. Wakahara and T. Ando, Connection rule of envelope functions at heterointerface 196 (1988) 694
P.K. Basu, C.K. Sarkar and S. Kundu, Variation of thermopower of two-dimensional electrons in GaAs and InGaAs at low temperatures 196 (1988) 700
A.M. Dabiran, R.T. Zeller, F.F. Fang, S.L. Wright and P.J. Stiles, Electrochemical potential oscillations of the two-dimensional electron gas in GaAs/AlGaAs heterostructures in high magnetic fields 196 (1988) 712

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D. Pooke, R. Mottahedeh, M. Pepper and A. Gundlach, Quantum transport in narrow Si accumulation layers 196 (1988) 59
M.L. Roukes, A. Scherer, H.G. Craighead, S.J. Allen, Jr., R.M. Ruthen, E.D. Beebe and J.P. Harbison, Transport in ultra-narrow quantum well wires 196 (1988) 79
H. Aoki, Localisation in the quantum Hall regime 196 (1988) 107
L. Bliek, G. Hein, D. Jucknischke, V. Kose, J. Niemeyer, G. Weimann and W. Schlapp, Breakdown of dissipationless quantum Hall conduction in narrow channels 196 (1988) 156
S.A. Trugman and F.R. Waugh, Complex scattering dynamics and the integral quantum Hall effect 196 (1988) 171
R. Meisels, F. Kuchar, K.Y. Lim, G. Weimann and W. Schlapp, The intrinsic plateau width and the effect of the sample boundaries on the integral quantum Hall effect in GaAs/AlGaAs 196 (1988) 177
B.E. Kane, D.C. Tsui and G. Weimann, Low frequency noise in the integral quantum Hall effect 196 (1988) 183
R. Woltjer, Experiments and theory on the quantum Hall effect with inhomogeneous electron density 196 (1988) 188
B.B. Goldberg, D. Heiman, A. Pinczuk, C.W. Tu, A.C. Gossard and J.H. English, Magneto-optics of the fractional quantum Hall effect 196 (1988) 209
R.G. Clark, J.R. Mallett, A. Usher, A.M. Suckling, R.J. Nicholas, S.R. Haynes, Y. Journaux, J.J. Harris and C.T. Foxon, Experimental tests of fractional quantum Hall effect theory 196 (1988) 219
J. Wakabayashi, S. Sudou, S. Kawaji, K. Hirakawa and H. Sakaki, Effects of the gate bias on the activation energies of the fractional quantum Hall effect 196 (1988) 236
R.J. Haug, K. von Klitzing, R.J. Nicholas, J.C. Maan and G. Weimann, The influence of a tilted magnetic field on the fractional quantum Hall effect and the exchange enhancement of the spin splitting 196 (1988) 242
D.A. Syphers and J.E. Furneaux, Fractional quantum Hall effect in tilted magnetic fields 196 (1988) 252
R. Willett, H.L. Stormer, D.C. Tsui, A.C. Gossard, J.H. English and K.W. Baldwin, Fractional quantum Hall effect in extremely high mobility GaAs/(AlGa)As heterostructures 196 (1988) 257
M. Chmielowski, M. Gliński, W.H. Zhuang, G.B. Liang, D.Z. Sun, M.Y. Kong, W. Plesiewicz, T. Dietl and T. Skośkiewicz, Fundamental high-field transport properties of a GaAs/AlGaAs modulation doped heterostructure 196 (1988) 299
K.P. Martin, R.J. Higgins, J.J.L. Rascol, H. Yoo and J.R. Arthur, Quantum lifetime measurements of the two-dimensional electron gas at the inverted AlGaAs/GaAs interface 196 (1988) 323
P.L. Gammel, D.J. Bishop, J.P. Eisenstein, R.P. Hall, H.L. Stormer, A.C. Gossard and J.H. English, Quantum oscillations in a mechanical resonator containing a two-dimensional electron system 196 (1988) 417
M.A. Brummell, D.R. Leadley, R.J. Nicholas, J.J. Harris and C.T. Foxon, Competition between LO and TO phonon scattering in GaAs/GaAlAs heterojunctions 196 (1988) 451
E.Y. Andrei, D.C. Glattli, F.I.B. Williams and M. Heiblum, Low frequency collective excitations in the quantum-Hall system 196 (1988) 501
K.C. Woo, S. Rafol and J.P. Faurie, Electronic properties of HgTe/HgCdTe heterojunctions 196 (1988) 665

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J.C. Maan, Magneto-optical properties of superlattices and quantum wells 196 (1988) 518
D.L. Smith and C. Mailhiot, Strained type II superlattices 196 (1988) 683

Indium arsenide

T.P. Smith III, H. Munekata, L.L. Chang, F.F. Fang and L. Esaki, Magnetic-field-induced transitions in InAs/$Ga_{1-x}Al_xSb$ heterostructures 196 (1988) 687
P.K. Basu, C.K. Sarkar and S. Kundu, Variation of thermopower of two-dimensional electrons in GaAs and InGaAs at low temperatures 196 (1988) 700

Indium phosphide

R. Sauer, T.D. Harris and W.T. Tsang, Photoluminescence and photoluminescence excitation study of electron–hole tunneling in $In_{0.53}Ga_{0.47}As$/InP coupled-single quantum wells 196 (1988) 388
D.J. Westland, D. Mihailovič, J.F. Ryan and M.D. Scott, Time-resolved photoluminescence measurement of carrier trapping time of InGaAs/InP quantum wells 196 (1988) 399
M.S. Skolnick, J.M. Rorison, K.J. Nash and S.J. Bass, Fermi energy edge singularity in luminescence spectra from modulation-doped quantum wells 196 (1988) 507

Infrared spectroscopy

S. Oelting, A.D. Wieck, E. Batke and U. Merkt, Cyclotron masses of inversion electrons in tilted magnetic fields 196 (1988) 273
J.-M. Mercy, B.D. McCombe, W. Beard, J. Ralston and G. Wicks, Barrier impurity states in modulation doped AlGaAs/GaAs multi-quantum wells 196 (1988) 334
D. Gammon, E. Glaser, B.V. Shanabrook and D. Musser, A spectroscopic study of screening effects in a quasi-two-dimensional system 196 (1988) 359
J.P. Kotthaus, W. Hansen, H. Pohlmann, M. Wassermeier and K. Ploog, Intersubband resonances in quasi-one-dimensional channels 196 (1988) 600
G. Abstreiter, T. Egeler, S. Beeck, A. Seilmeier, H.J. Hübner, G. Weimann and W. Schlapp, Electronic excitations in narrow GaAs/$Al_xGa_{1-x}As$ quantum well structures 196 (1988) 613

Light scattering

B.B. Goldberg, D. Heiman, A. Pinczuk and A.C. Gossard, Inelastic light scattering of valence subband transitions in GaAs/GaAlAs multiple quantum wells 196 (1988) 619

Magnetic measurements

A.M. Chang, G. Timp, T.Y. Chang, J.E. Cunningham, B. Chelluri, P.M. Mankiewich, R.E. Behringer and R.E. Howard, Magneto-quantum transport in a quasi-one-dimensional GaAs/$Al_xGa_{1-x}As$ ring 196 (1988) 46

R.P. Taylor, M.L. Leadbeater, G.P. Whittington, P.C. Main, L. Eaves, S.P. Beaumont, I. McIntyre, S. Thoms and C.D.W. Wilkinson, Universal conductance fluctuations in the magnetoresistance of submicron-size n^+-GaAs wires and laterally confined n^--GaAs/(AlGa)As heterostructures 196 (1988) 52

G. Timp, A.M. Chang, P. deVegvar, R.E. Howard, R. Behringer, J.E. Cunningham and P. Mankiewich, Quantum transport in one-dimensional GaAs/AlGaAs microstructures 196 (1988) 68

J.A. Simmons, D.C. Tsui and G. Weimann, Quantum interference effects in high-mobility mesoscopic GaAs/$Al_xGa_{1-x}As$ heterostructures 196 (1988) 81

J.J. Wainer, A.B. Fowler and R.A. Webb, Magnetic field effects in strongly localized quasi-1D MOSFETs 196 (1988) 134

H. van Houten, C.W.J. Beenakker, B.J. van Wees and J.E. Mooij, Boundary scattering modified one-dimensional weak localization in submicron GaAs/AlGaAs heterostructures 196 (1988) 144

P.W. Adams and M.A. Paalanen, Localization effects in a non-degenerate 2DEG 196 (1988) 150

M. D'Iorio, A.S. Sachrajda, D. Landheer, M. Buchanan, T. Moore, C.J. Miner and A.J. Springthorpe, Narrow channel breakdown in GaAs/AlGaAs heterostructures 196 (1988) 165

I.V. Kukushkin and V.B. Timofeev, Optical measurements of Landau level density of states and Coulomb gaps under FQHE in Si MOSFET 196 (1988) 196

G.L.J.A. Rikken, P. Wyder, K. Ploog, J.M. Chamberlain, R.T. Grimes and G. Hill, Nanosecond far infra red magnetospectroscopy of GaAs/AlGaAs heterostructures 196 (1988) 303

A. Waag, W. Heuring, G. Remenyi, G. Landwehr, E. Bangert, G. Weimann and W. Schlapp, Density of states in a two-dimensional hole gas in high magnetic fields 196 (1988) 328

C.A. Payling, E.S. Alves, L. Eaves, T.J. Foster, M. Henini, O.H. Hughes, P.E. Simmonds, F.W. Sheard, G.A. Toombs and J.C. Portal, Evidence for sequential tunnelling and charge build-up in double barrier resonant tunnelling devices 196 (1988) 404

J.P. Eisenstein, A.C. Gossard and V. Narayanamurti, Thermal conductance magneto-oscillations and electron–phonon coupling in GaAs/AlGaAs heterostructures 196 (1988) 445

J.C. Maan, Magneto-optical properties of superlattices and quantum wells 196 (1988) 518

S.-R. Eric Yang and L.J. Sham, Theory of magneto-excitons in quantum wells 196 (1988) 533

S. Lamari and L.J. Sham, Theory of magneto-optical properties in narrow-gap semiconductor quantum wells 196 (1988) 551

J.E. Zucker, E. Isaacs, D. Heiman, A. Pinczuk and D.S. Chemla, Localized quantum well excitons in the high magnetic field limit 196 (1988) 563

B.B. Goldberg, D. Heiman, A. Pinczuk and A.C. Gossard, Inelastic light scattering of valence subband transitions in GaAs/GaAlAs multiple quantum wells 196 (1988) 619

R. Borroff, R. Merlin, R.L. Greene and J. Comas, Observation of coupled quasi-two-dimensional electronic excitations in tilted magnetic fields 196 (1988) 626

A. Zrenner, F. Koch and K. Ploog, Subband physics for a "realistic" δ-doping layer 196 (1988) 671
C.H. Perry, K.S. Lee, W. Zhou, J.M. Worlock, A. Zrenner, F. Koch and K. Ploog, Magneto-optical studies of a silicon delta-doping layer in n-GaAs 196 (1988) 677
R.S. Markiewicz, M. Meskoob and B. Maheswaran, Landau gap in a two-dimensional hole gas 196 (1988) 707
A.M. Dabiran, R.T. Zeller, F.F. Fang, S.L. Wright and P.J. Stiles, Electrochemical potential oscillations of the two-dimensional electron gas in GaAs/AlGaAs heterostructures in high magnetic fields 196 (1988) 712

Magnetic structure

T. Ando, Localization in two-dimensional square lattices: effects of magnetic field and spin–orbit interaction 196 (1988) 120
B. Kramer, Y. Ono and T. Ohtsuki, On the fractal dimensionality of the extended states in disordered two-dimensional systems in a strong magnetic field 196 (1988) 127
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D.D. Awschalom, G. Grinstein, J. Yoshino, H. Munekata and L.L. Chang, Dimensional dependence of magnetic susceptibility in dilute magnetic semiconductor superlattices 196 (1988) 649
S.A. Jackson, Spin fluctuations and magnetic polaron formation in dilute magnetic semiconductor quantum well structures 196 (1988) 654
G.E. Marques, V.A. Chitta, M.H. Degani and O. Hipólito, Bound magnetic polaron in semimagnetic semiconductor heterostructures 196 (1988) 659

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A.V. Nurmikko, Quasi-two-dimensional excitons in selected II–VI compound semiconductor superlattices: the case of a small valence band offset 196 (1988) 632
G.E. Marques, V.A. Chitta, M.H. Degani and O. Hipólito, Bound magnetic polaron in semimagnetic semiconductor heterostructures 196 (1988) 659

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K.C. Woo, S. Rafol and J.P. Faurie, Electronic properties of HgTe/HgCdTe heterojunctions 196 (1988) 665
G.S. Boebinger, Y. Guldner, J.P. Vieren, M. Voos and J.P. Faurie, Two-dimensional electron gas in HgCdTe/CdTe heterostructures 196 (1988) 669

Noble gases

H.-W. Jiang, M.A. Stan and A.J. Dahm, Phase diagrams and melting in a screened two-dimensional system: electrons on helium films 196 (1988) 1
M. Saitoh, Melting and transport properties of two-dimensional Wigner crystals on liquid He 196 (1988) 8
D.C. Glattli, E.Y. Andrei and F.I.B. Williams, Specific and latent heat of the 2D electron solid 196 (1988) 17

L. Wilen and R. Giannetta, Cyclotron resonance of the 2D electron crystal 196 (1988) 24
K. Kajita, Nonlinear transport phenomena of crystallized electrons formed on liquid helium film 196 (1988) 29
C.J. Mellor, C.M. Muirhead, J. Traverse and W.F. Vinen, The search for crystallization of a two-dimensional pool of ions trapped below the surface of superfluid ^{4}He 196 (1988) 33
J.M. Goodkind, G.F. Saville, A.E. Ruckenstein and P.M. Platzman, Escape rates of electrons from the surface of liquid helium 196 (1988) 38

Photoconductivity

G.L.J.A. Rikken, P. Wyder, K. Ploog, J.M. Chamberlain, R.T. Grimes and G. Hill, Nanosecond far infra red magnetospectroscopy of GaAs/AlGaAs heterostructures 196 (1988) 303
F.F. Fang, T.P. Smith III and S.L. Wright, Landau-level broadening and scattering time in modulation doped GaAs/AlGaAs heterostructures 196 (1988) 310

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B.B. Goldberg, D. Heiman, A. Pinczuk, C.W. Tu, A.C. Gossard and J.H. English, Magneto-optics of the fractional quantum Hall effect 196 (1988) 209
B. Deveaud, J. Shah, T.C. Damen, A. Regreny and B. Lambert, Determination of carrier mobility for Bloch transport in superlattice minibands 196 (1988) 386
R. Sauer, T.D. Harris and W.T. Tsang, Photoluminescence and photoluminescence excitation study of electron–hole tunneling in $In_{0.53}Ga_{0.47}As/InP$ coupled-single quantum wells 196 (1988) 388
D.J. Westland, D. Mihailovič, J.F. Ryan and M.D. Scott, Time-resolved photoluminescence measurement of carrier trapping time of InGaAs/InP quantum wells 196 (1988) 399
M.S. Skolnick, J.M. Rorison, K.J. Nash and S.J. Bass, Fermi energy edge singularity in luminescence spectra from modulation-doped quantum wells 196 (1988) 507
J.A. Brum, J. Orgonasi, G. Bastard, C. Delalande, M. Voos, G. Weimann and W. Schlapp, Optical properties of one-side modulation-doped quantum wells 196 (1988) 512
J.C. Maan, Magneto-optical properties of superlattices and quantum wells 196 (1988) 518
J.S. Lee, N. Miura and Y. Iwasa, Magneto-optics of n- and p-type modulation-doped $GaAs/Al_xGa_{1-x}As$ quantum wells 196 (1988) 534
L. Viña, Spectroscopic studies of excitonic fine structure under electric fields 196 (1988) 569
A.V. Nurmikko, Quasi-two-dimensional excitons in selected II–VI compound semiconductor superlattices: the case of a small valence band offset 196 (1988) 632
D.D. Awschalom, G. Grinstein, J. Yoshino, H. Munekata and L.L. Chang, Dimensional dependence of magnetic susceptibility in dilute magnetic semiconductor superlattices 196 (1988) 649
C.H. Perry, K.S. Lee, W. Zhou, J.M. Worlock, A. Zrenner, F. Koch and K. Ploog, Magneto-optical studies of a silicon delta-doping layer in n-GaAs 196 (1988) 677

Raman scattering

D. Gammon, E. Glaser, B.V. Shanabrook and D. Musser, A spectroscopic study of screening effects in a quasi-two-dimensional system 196 (1988) 359
J.E. Zucker, E. Isaacs, D. Heiman, A. Pinczuk and D.S. Chemla, Localized quantum well excitons in the high magnetic field limit 196 (1988) 563
J.M. Calleja, C. López, C. Tejedor, L. Viña, E.E. Méndez, W.I. Wang, M. Staines and M. Cardona, Study of electric field effects on the electronic structure of quantum wells by resonant Raman scattering 196 (1988) 578
G. Abstreiter, T. Egeler, S. Beeck, A. Seilmeier, H.J. Hübner, G. Weimann and W. Schlapp, Electronic excitations in narrow GaAs/$Al_xGa_{1-x}As$ quantum well structures 196 (1988) 613
R. Borroff, R. Merlin, R.L. Greene and J. Comas, Observation of coupled quasi-two-dimensional electronic excitations in tilted magnetic fields 196 (1988) 626

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S.A. Jackson, Spin fluctuations and magnetic polaron formation in dilute magnetic semiconductor quantum well structures 196 (1988) 654

Silicon

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S.B. Kaplan, Structure in the rectifying behavior of mesoscopic Si MOSFETs 196 (1988) 93
J.J. Wainer, A.B. Fowler and R.A. Webb, Magnetic field effects in strongly localized quasi-1D MOSFETs 196 (1988) 134
I.V. Kukushkin and V.B. Timofeev, Optical measurements of Landau level density of states and Coulomb gaps under FQHE in Si MOSFET 196 (1988) 196
J.-P. Cheng, N.C. Jarosik, B.D. McCombe and K.C. Woo, Cyclotron resonance of electrons in Si n-inversion layers at low densities: many-body effects or localization? 196 (1988) 268
S. Kawaji and N. Nagashima, Effects of higher subband tails on inelastic scattering time in Si(001) inversion layers 196 (1988) 316
A. Ghazali, A. Gold and J. Serre, Impurity bands and band tails in accumulation and inversion layers 196 (1988) 346
G.M. Kramer and R.F. Wallis, Theory of electronic impurity states associated with primed subbands of inversion layers in silicon MOSFETs 196 (1988) 355
U. Kunze, Tunneling study of mixed electric and magnetic subbands on Si(001) surfaces 196 (1988) 374
A.J. Kent, V.W. Rampton, M.I. Newton, P.J.A. Carter, G.A. Hardy, P. Hawker, P.A. Russell and L.J. Challis, Magnetic field dependence of the phonon scattering and phonon emission by a 2DEG in a Si MOSFET 196 (1988) 410
V.B. Shikin and I. Nachev, Edge electron states in charged two-dimensional systems 196 (1988) 494
J.P. Kotthaus, W. Hansen, H. Pohlmann, M. Wassermeier and K. Ploog, Intersubband resonances in quasi-one-dimensional channels 196 (1988) 600
A. Zrenner, F. Koch and K. Ploog, Subband physics for a "realistic" δ-doping layer 196 (1988) 671

C.H. Perry, K.S. Lee, W. Zhou, J.M. Worlock, A. Zrenner, F. Koch and K. Ploog, Magneto-optical studies of a silicon delta-doping layer in n-GaAs 196 (1988) 677

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A.J. Kent, V.W. Rampton, M.I. Newton, P.J.A. Carter, G.A. Hardy, P. Hawker, P.A. Russell and L.J. Challis, Magnetic field dependence of the phonon scattering and phonon emission by a 2DEG in a Si MOSFET 196 (1988) 410
M. Babiker, M.P. Chamberlain, A. Ghosal and B.K. Ridley, A new resonance phenomenon associated with electron transitions in superlattices and single quantum wells 196 (1988) 422
J.P. Eisenstein, A.C. Gossard and V. Narayanamurti, Thermal conductance magneto-oscillations and electron–phonon coupling in GaAs/AlGaAs heterostructures 196 (1988) 445
M.A. Brummell, D.R. Leadley, R.J. Nicholas, J.J. Harris and C.T. Foxon, Competition between LO and TO phonon scattering in GaAs/GaAlAs heterojunctions 196 (1988) 451
M.H. Degani and O. Hipólito, Electron–interface-phonon interaction in GaAs/AlAs and InAs/GaSb heterojunctions 196 (1988) 459

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J.K. Jain and S. Das Sarma, Elementary collective excitations in multilayered two-dimensional systems 196 (1988) 466
G.F. Giuliani, Plasmon mechanism for superconductivity in semiconducting heterostructures: the effect of acoustic plasmons 196 (1988) 476
P. Hawrylak, G. Eliasson and J.J. Quinn, Electron self-energy, effective mass and lifetime in a layered electron gas 196 (1988) 482
R.Q. Yang, X.J. Lu, X.L. Lei, L.M. Xie and C.H. Tsai, Density correlation function of a superlattice with wave function overlap 196 (1988) 487

Surface roughness

J. Hegarty and M.D. Sturge, Exciton localisation in quantum well structures 196 (1988) 555

Surface states

V.B. Shikin and I. Nachev, Edge electron states in charged two-dimensional systems 196 (1988) 494

Surface thermodynamics

H.-W. Jiang, M.A. Stan and A.J. Dahm, Phase diagrams and melting in a screened two-dimensional system: electrons on helium films 196 (1988) 1
M. Saitoh, Melting and transport properties of two-dimensional Wigner crystals on liquid He 196 (1988) 8
D.C. Glattli, E.Y. Andrei and F.I.B. Williams, Specific and latent heat of the 2D electron solid 196 (1988) 17

Tunneling

R. Lassnig, J. Smoliner, W. Boxleitner and E. Gornik, Tunneling study of GaAs/GaAlAs heterostructures 196 (1988) 367
U. Kunze, Tunneling study of mixed electric and magnetic subbands on Si(001) surfaces 196 (1988) 374
B. Movaghar, J. Leo and A. MacKinnon, Elastic and inelastic tunneling in multiple quantum well structures 196 (1988) 381
R. Sauer, T.D. Harris and W.T. Tsang, Photoluminescence and photoluminescence excitation study of electron–hole tunneling in $In_{0.53}Ga_{0.47}As/InP$ coupled-single quantum wells 196 (1988) 388
P.J. Price, Tunneling in AlGaAs by Γ–X scattering 196 (1988) 394
C.A. Payling, E.S. Alves, L. Eaves, T.J. Foster, M. Henini, O.H. Hughes, P.E. Simmonds, F.W. Sheard, G.A. Toombs and J.C. Portal, Evidence for sequential tunnelling and charge build-up in double barrier resonant tunnelling devices 196 (1988) 404
R.Q. Yang, X.J. Lu, X.L. Lei, L.M. Xie and C.H. Tsai, Density correlation function of a superlattice with wave function overlap 196 (1988) 487
H. Akera, S. Wakahara and T. Ando, Connection rule of envelope functions at heterointerface 196 (1988) 694

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A.V. Nurmikko, Quasi-two-dimensional excitons in selected II–VI compound semiconductor superlattices: the case of a small valence band offset 196 (1988) 632